

IN THE CLAIMS:

1. (*currently amended*) A passively temperature-compensated optical grating device comprising:

a support frame formed of a material exhibiting a relatively low coefficient of thermal expansion (CTE), said support frame including a floor bottom surface, a first fixed sidewall and a second fixed sidewall and a lever arm as a second, movable sidewall;

a lever arm formed of a relatively low coefficient of thermal expansions (CTE) material fixed at a first end to a predetermined pivot point along the support frame bottom surface, a second, remaining end of said lever arm free to rotate about said pivot point;

an optical fiber grating attached between said first fixed sidewall and said second, remaining end of said lever arm; and

an expansion element formed of a material exhibiting a relatively high coefficient of thermal expansion (CTE), said expansion element coupled between the second, fixed sidewall and ~~attached to said support frame and disposed to be in physical contact with~~ said lever arm, wherein changes in the dimensions of said high CTE expansion element as a function of temperature rotate ~~changes results in rotating~~ said lever arm through a predetermined angle about said pivot point to adjust ~~modify~~ the strain applied to said optical fiber grating and change ~~such that the strain nullifies wavelength of said optical grating device changes associated with temperature changes.~~

2. (*currently amended*) The passively temperature-compensated optical grating device of claim 1 wherein the low CTE support frame and ~~fixed sidewall~~ lever arm comprise Kovar.

3. (*currently amended*) The passively temperature-compensated optical grating device of claim 1 wherein the low CTE support frame and ~~fixed sidewall~~ lever arm comprise Invar.

4. *(original)* The passively temperature-compensated optical grating device of claim 1 wherein the high CTE expansion element comprises an aluminum alloy.

5. *(original)* The passively temperature-compensated optical grating device of claim 1 wherein the high CTE expansion element comprises brass.

6. *(original)* The arrangement as defined in claim 1 wherein the pump source comprises a Raman fiber laser.

7. *cancelled*